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Title: LANL FY11 Activities (U)

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Intended for: W78 IWET Meeting



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**Abstract:**

Briefings presenting W78 programmatic activities for FY11 and the status and plan for associated Hydro 3617, is included wherewith in support of the NNSA W78 Program Review Meeting scheduled for January 11 thru 13, 2011, at the Savannah River Plant, SC.

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# W78 IWET Meeting

## LANL FY11 Activities (U)

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**W78 Weapon Manager**

**11 January 2011**



This document has been deemed  
UNCLASSIFIED by:  
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(DC)

# Standard, Annual Programmatic Activities

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- **Program Management;**
  - Basic team coverage of all sustainment efforts
    - Travel, training, external interfacing, meeting attendance, etc.
- **W78 System AARP, a major cost**
  - Document prep, surveillance and internal testing data analysis both at the physics and engineering levels
  - SAG Conference briefs and related efforts (SAG; week of 6 June @ SNL)
  - 2011 efforts have commenced with kick-off meeting between Labs scheduled for 12 January
- **SFI efforts**
  - Polymer SFI closure; March. 2011
  - SFN support as needed (e.g. Y-12 SFN on radiography data)
- **GTS support;**
  - PA support and LLCE extensions, as well as expertise sustainment



## Unique W78 FY11 Activities

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- **Refurbishment**
  - Common Warhead Reg'ts. Working Group activities
  - Phase 6.1, FY11 initiation and document generation support, as required
- **JTA activities**
  - JTA612 ; unit support for GT-204 (6/22/11)
  - JTA613 CSA build without internal data collection capabilities
  - JTA519; unit build @ Y-12 and @ Pantex; delivery date; Feb. '12
  - Determination of JTA's 614 & 615 unit configuration and flight load out is now an A3 (MIRV configuration)
- **Joint Ground Test Unit**
  - Design configuration, similar to JTA5
  - Component fabrication; CSA at Y-12
  - SNL-LANL instrumentation requirements and installation
  - Assembly at LANL
    - Component shipment to LANL
    - Px. assistance; tooling may be needed for assembly

## Unique W78 FY11 Activities, cont.

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- **Engineering and physics modern design baselining**
  - A continual effort to modernize the design
  - Needed to evaluate warhead health without UGT
- **Conduct life time expectancy study**
  - Fogbank
  - Pit
  - Other components, as needed
- **Hydro 3617**
  - Follow-up to Hydro 3618
  - Pin array
  - Design and component fabrication in FY11, shot scheduled for FY12. FY11 & FY12 funding needed.
- **Surety efforts**
  - Classified discussion

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Questions ??

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**W78/Mk12A**